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NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

7590

10/07/2010

EXAMINER

KETEMA, BENYAM

ART UNIT PAPER NUMBER

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314

2629

DATE MAILED: 10/07/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,469	05/15/2006	Yuriko Suzuki	291013US40PCT	3346

TITLE OF INVENTION: INNER FORCE SENSE PRESENTATION DEVICE, INNER FORCE SENSE PRESENTATION METHOD, AND INNER

FORCE SENSE PRESENTATION PROGRAM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/07/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further ndicated unless correcte naintenance fee notificat	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of a) specifying a new con	of ma rresp	ondence address;	ll be i and/or	mailed to the current of (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDI	ENCE ADDRESS (Note: Use Bi	ock 1 for any change of address)	F p	ee(s)) Transmittal. This s. Each additional	certifi paper,	icate cannot be used for	domestic mailings of the rany other accompanying t or formal drawing, must
OBLON, SPIV 1940 DUKE STI ALEXANDRIA		^{//2010} AND MAIER & NI	EUSTADT, L.L.I S a ti	Phere States ddre	Certi by certify that this Postal Service wi ssed to the Mail nitted to the USPT	ficate Fee(s th suff Stop O (57	of Mailing or Transn s) Transmittal is being ficient postage for first ISSUE FEE address 1) 273-2885, on the da	nission deposited with the United class mail in an envelope above, or being facsimile te indicated below.
			[(Depositor's name)
								(Signature)
			L		<u>-</u>			(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/579,469 TITLE OF INVENTION	05/15/2006 N: 1NNER FORCE SE	NSE PRESENTATION	Yuriko Suzuki DEVICE, INNER FOI	RCE	SENSE PRESEN		01013US40PCT ON METHOD, AND	3346 1NNER
FORCE SENSE PRESEN	NTATION PROGRAM							
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	Æ I	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	01/07/2011
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
KETEMA,	BENYAM	2629	345-156000					
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a					
PLEASE NOTE: Unl recordation as set forth (A) NAME OF ASSIG	ess an assignee is ident h in 37 CFR 3.11. Comp GNEE	A TO BE PRINTED ON The street of the street	data will appear on the T a substitute for filing (B) RESIDENCE: (CI	e pat an as	ent. If an assigned ssignment. and STATE OR CO	OUNT	RY)	cument has been filed for
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_			The Director is her	eby a	uthorized to charg	e the r	required fee(s), any def	iciency, or credit any extra copy of this form).
_ ~ .	tus (from status indicateds SMALL ENTITY state		b. Applicant is no l	longe	er claiming SMALI	L EN'I	TITY status. See 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee and neterest as shown by the r	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other that Office.	n the	e applicant; a regist	tered a	attorney or agent; or the	e assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration No)		
n application. Confident ubmitting the completed his form and/or suggesti	tiality is governed by 35 application form to the ons for reducing this builting in 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is depending upon the in eChief Information Of	estir divid ficer	nated to take 12 m lual case. Any con . U.S. Patent and T	inutes nment: 'radem	to complete, including s on the amount of tim nark Office, U.S. Depa	by the USPTO to process) g gathering, preparing, and the you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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22850 75	90 10/07/2010	EXAMINER			
OBLON, SPIVA	K, MCCLELLAND	KETEMA, BENYAM			
1940 DUKE STRE		ART UNIT PAPER NUMBER			
ALEXANDRIA, V	'A 22314	2629			
		DATE MAILED; 10/07/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 556 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 556 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/579,469	SUZUKI ET AL.				
Notice of Allowability	Examiner	Art Unit				
	BENYAM KETEMA	2629				
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in the or other appropriate communic IGHTS. This application is subj	s application. If not included ation will be mailed in due course. THIS				
1. This communication is responsive to <u>09/10/2010</u> .						
2. \square The allowed claim(s) is/are <u>1,4-8 and 10-12</u> .						
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application N	lo				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements				
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 						
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the depo 6. ☐ DEPOSIT OF and/or INFORMATION about the depo 	son's Patent Drawing Review (I s Amendment / Comment or in .84(c)) should be written on the c he header according to 37 CFR 1 sit of BIOLOGICAL MATER	the Office action of Irawings in the front (not the back) of .121(d). AL must be submitted. Note the				
attached Examiner's comment regarding REQUIREMENT Attachment(s)	FOR THE DEPOSIT OF BIOLO	OGICAL MATERIAL.				
1. Notice of References Cited (PTO-892)	5. Notice of Inform	nal Patent Application				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		6. ☐ Interview Summary (PTO-413), Paper No./Mail Date				
3. Information Disclosure Statements (PTO/SB/08),	7. ☐ Examiner's Am					
Paper No./Mail Date4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		8. Examiner's Statement of Reasons for Allowance				
	9. Other					

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DETAILED ACTION

1. In an amendment dated, September 15, 2010, Claims 1 and 8 have been amended. Currently claims 1, 4- 8 and 10- 12 are presented for examination.

Response to Amendment

2. Applicant's amendment filed September 15, 2010, with respect to Claim 1 and 8 has been fully considered and is persuasive. The rejection of Claims 1, 4-8 and 10-12 has been withdrawn.

Examiner's Statement of Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance: The prior art of record fails to disclose the claimed invention. The features of independent claim 1 and 8 directed towards allowable subject matter is "...a jetting unit that includes a nozzles and that is configured to control a jet amount or a jet direction of gas or liquid jetted from the nozzles; and a jet control unit configured to control the jet amount or the jet direction of the gas or the liquid according to a position or an orientation of a receiver that is configured to receive a pressure by the gas or the liquid jetted from the jetting unit so as to provide force feedback to an operator wherein, the position or the orientation of the receiver is measured by a receiver measurement unit, the nozzles are arranged in equilateral triangles in the jetting unit, and when the receiver has a

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concave shape of a diameter D, intervals for placing each of the nozzles in the jetting unit are set such that at least one nozzle exists within a region having a diameter of 0.8 × D to exert an even pressure on the receiver at nozzle transitions, the receiver is separated from a surface on which the nozzles that form the equilateral triangles are arranged and the gas or the liquid is jetted towards the receiver from the nozzles that form the equilateral triangles ...". Suzuki et al. (JP Publication No. 2001-022499) discloses a jetting unit that includes a nozzles (fig 1b item 2) and that is configured to control a jet amount or a jet direction of gas or liquid jetted from the nozzles (Paragraph 16 and 17); a jet control unit (fig 2 item 10) configured to control the jet amount or the jet direction of the gas or the liquid according to a position or an orientation of a receiver that is configured to receive a pressure by the gas or the liquid jetted from the jetting unit so as to provide force feedback to an operator (Paragraph 5), wherein, the position or the orientation of the receiver is measured by a receiver measurement unit (Paragraph 5, line 4-5) and the receiver has a concave shape (Par 12), the receiver is separated from a surface where the nozzle is located (fig 1b wherein the receiver 5 is not connected to the unit where the nozzle is located) the gas or the liquid is jetted towards the receiver from the nozzles [(Fig 2 item 2, air blasting discharge) discloses air is discharged toward the blast receiving unit (5) from air blasting discharging nozzles (2)]. Further more Satoshi et al (JP Publication No. 2004/157677) discloses that the nozzles in the jetting units are positioned in a triangular shape. But Suzuki et al. or Satoshi et al fails to disclose intervals for placing each of the nozzles in the jetting unit are set such that at least one nozzle exists within a region having a diameter of 0.8 x

D to exert an even pressure on the receiver at nozzle transitions. These features in combination with the remaining language of claim 1 and 8 are not taught by the prior art of record. Therefore claims 1, 3-8 and 10-12 are found to be allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BENYAM KETEMA whose telephone number is (571)270-7224. The examiner can normally be reached on Monday- Friday 8:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shalwala Bipin H can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status

Application/Control Number: 10/579,469

Art Unit: 2629

information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

Customer Service Representative or access to the automated information system, call

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800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ B.K. /

Examiner, Art Unit 2629

/Bipin Shalwala/

Supervisory Patent Examiner, Art Unit 2629